

Amendments to the Specification

Please replace paragraph [0048] with the following replacement paragraph:

[0048] Now consider using an LO whose frequency differs from the baud frequency by a relatively small amount, such as 100 kHz or so. The phase relationship between the LO signal and the RZ data signal will be swept through at the rate of the difference frequency. This creates an intermediate frequency (IF) ~~frequency~~ at the difference frequency. In essence, an a.c. version of the above-mentioned d.c. voltage is created. Again, if a well-defined RZ data signal is present, a strong a.c. IF signal will be created because most of the RZ pulse energy is concentrated in one-half of the UI. If an RZ signal suffering from dispersion is present, with its energy almost evenly spread across the UI (on average), then virtually no a.c. IF signal will be produced.